The Brief Wondrous Tournament of WAO - *Málà Yousufzai, served extra spicy*
Editors: Will Alston, Joey Goldman, James Lasker, Jason Cheng, Naveed Chowdhury, and Jonathan Luck, with writing assistance from Athena Kern and Shan Kothari.

Packet by OSU

TOSSUPS

1. **An unrealized museum by this person meant to house the works of a founding member of COBRA was explored in the 2016 exhibition FATAMORGANA. Le Corbusier was commissioned by this architect to create a tapestry for one of this person's works. This architect created a set of L-shaped houses with courtyards along cul-du-sacs in his home country. This man created a work inspired by a visit to Isfahan that was later set on fire by retreating Iraqi troops; that work of his is the (*)** Kuwait National Assembly building. He also designed the aforementioned Kingo Houses. The roofs of his most famous work, designed in cooperation with Arup, are concrete panels that were cast as parts of a sphere. For 10 points, name this architect of an opera-house with white, sail-like roofs that is located on Sydney Harbor.
ANSWER: Jorn **Utzon** <Edited>

2. **An influential history of linguistics of this language was written by Kees Versteegh. Among all languages in which a triliteral root system is the basis for most word formation, this is the one in which the broken plural is most productive. In non-formal varieties of this language, the usage of the dual form varies for nouns but is extremely rare for verbs. A common online chat transliteration for this language represents emphatic consonants with numerals. Western varieties of this language are divided into (*)** Hilalian and pre-Hilalian dialects. Most media and print outlets employ this language's "Modern Standard" variety, in contrast to its "Classical" variety, which is used liturgically. Varieties of this language spoken on Sicily developed into the modern language Maltese. For 10 points, name this most widely-spoken Semitic language, which has Moroccan and Egyptian varieties.
ANSWER: **Arabic** [or al-**'arabiyya**h] <Edited>

3. **A character created by this author meets an Armenian astrologer who believes that sadness can be permanently overcome in one hour of concentration. That character travels to Kareno with his friend Tu Fu and writes a letter to Louis the Cruel at the end of a novel by this author. The protagonist of a novel by this author offends a right-wing nationalist professor by insulting a portrait of (*)** Goethe and is later handed a radio which plays the music of Handel by Mozart. A novel by this author ends with the protagonist, who had earlier vowed to commit suicide on his 50th birthday, step through doors marked "ALL GIRLS ARE YOURS" and "HOW ONE KILLS FOR LOVE" in a hall of mirrors. This author of *Klingsor's Last Summer* wrote a novel in which Hermine is banged by the saxophonist Pablo in the Magic Theater. For 10 points, identify this author of *Steppenwolf*.
ANSWER: Hermann **Hesse**

4. **Until a 2003 study by Geoffrey Wawro, a knighted historian with this surname essentially had the only mainstream book analyzing the connections between the Franco-Prussian War and the rise of brutal national warfare. That man with this surname, who wrote *War and the Liberal Conscience*, collaborated with Peter Paret on the most popular translation of Clausewitz. The head of the Department of Political Science at an institution named for a man with this surname served as the main field researcher for *An American Dilemma*; that institution of this name employed (*)** Alain Locke as chair of its Department of Philosophy. This surname was held by a woman whose affair with Thomas Culpeper was exposed as part of a power play by Thomas Cranmer, leading her to become the last executed wife of Henry VIII. The successor of Anne of Cleves, whose first name was Catherine, had -- for 10 points -- what surname borne by the first head of the Freedmen's Bureau, Oliver Otis?
ANSWER: **Howard** [accept Michael **Howard** or **Howard** University or **Catherine** Howard] <Edited>

5. **A computer that uses this non-laser system to solve Max-Cut optimization problems was developed by Yamamoto et al using light pulses in an optical cavity. Symmetries between high and low temperatures in this system are applied in the Kramers-Wannier duality to find that a dimensionless quantity for this system is "one half log of quantity one plus square root of two close quantity." This system can be solved by constructing a partition function via the trace of the product of transfer matrices. That method was developed by (*)** Lars Onsager. This model tries to minimize energy by allowing dipole moments of neighboring particles to interact with each other. The 1D version of this model notably does not allow phase transitions. For 10 points, name this model of ferromagnetism named for a German Physicist.
ANSWER: **Ising** model [accept 2-D **Ising** model or other specific instances]

6. *Description acceptable.* **James Strang's claims to this position were boosted by a purported archeological finding in Voree, Wisconsin. Followers of one claimant to this position temporarily resided at the settlement of Winter Quarters. Adherents to the doctrine of lineal succession who believed that this position should be transmitted hereditarily were stymied by the heir to this position being an eleven-year-old boy. Supporters of that boy's claim to this position eventually established their own organization in (*)** Independence, Missouri. A majority ultimately accepted the claims of the President of the Quorum of the Twelve to this position. The dispute over this position began after a murder in Carthage, Illinois in 1848. For 10 points, name this religious leadership position that was contested in a succession crisis that was won by Brigham Young.
ANSWER: **successor** to **Joseph Smith**, Jr. [accept descriptive answers or answers relating to **president** of the **Mormon** church, **king** of the **Mormon** church, or **leader** of the **Mormon** church; do not accept or prompt on "First Presidency"] <Edited>

7. **In a work by this author, a man uses the story of a mouse who renounces bait to escape a trap to justify his desire for his son to flee an executioner. In another work by this author, a woman is forced into marrying a one-eyed man after losing a wager on a battle between women armed with plum and cherry branches. In 1961, four major works of this author were published in translation by Donald Keene. While hiding under his lover's robes, a character created by this author learns of a plan of a plan to possess that lover from an (*)** oil merchant who swindled him out of two pieces of silver. A play by this author has a title that ambiguously refers to buying out a courtesan or to the play's central New Year's festivities. This author of *The Uprooted Pine* wrote a play about Tokubei and Ohatsu, who kill themselves in Tenjin forest. For 10 points, name this author of *The Love Suicides At Sonezaki*, a *bunraku* playwright.
ANSWER: **Chikamatsu** Monzaemon [or **Sugimori** Nobumori]

8. **The Robert Mapplethorpe photograph "Jim and Tom, Sausalito" depicts one man providing this substance to another, who is in the process of consuming it. A Prime Minister of India, Morarji Desai, gave an interview to Dan Rather describing his adherence to medicine using this substance called** *gomutra*. **A consecrated of substance called** *gōmēz* **is used in the** *nērangdīn* **ritual to wash the bodies of deceased (*)** Zoroastrians; that form of this substance is derived from bulls. A fountain in Brussels depicts a small boy in the act of creating this substance. A sacrilegious 1987 Andres Serrano photograph depicts a crucifix immersed in this liquid. For 10 points, name this waste product which, according to a highly dubious report publicized by BuzzFeed, Russian prostitutes were hired to pour on Donald Trump in "golden showers."
ANSWER: **urine** [accept **piss** or **pee** or other synonyms] <Edited>

9. **A statement about this country made in the Moscow Declarations are a root of the so-called "victim theory" of its history, which looks past collaborationist moves by its pan-nationalist "Third Camp." The figurehead of this country's O5 resistance in WWII sought to help a neighboring Eastern Bloc population by organizing the Pan-European Picnic. It's not Greece, but the revelation of details about a presidential candidate's army service in Saloniki rocked this country's (*)** 1986 elections. A United Nations Secretary General from this country received a telegram from Idi Amin that praised the Munich Massacre during his service from 1972 to 1981. The Home Guard militia supported this country's fascist regime, the Fatherland Front, which was helmed by Engelbert Dollfuss until Kurt Schuschnigg came to power. For 10 points, name this country which was annexed in the *Anschluss*.
ANSWER: (Republic of) **Austria** [or Republik **Österreich**] <Edited>

10. **Glacial versions of these structures often form in conjunction with moulins. Moonmilk is sometimes also named for these locations, since it, like boxwork, is only found there. These places can have "spongework," "branchwork" or "ramiform" shapes. Brown and beige layers of "draperies" of flowstone form these places' namesake (*)** "bacon." Anchialine versions of these structures mix salt and fresh water. Halite and gypsum can form "beards" and "flowers" in these locations. The "Chandelier Ballroom" is found in one named Lechuguilla. Capillary action allows oddly curving helictites to defy gravity in these places. Thin, hollow "soda straws" form in these places, a defining feature of karst topographies, as do all other speleothems like stalactites and stalagmites. For 10 points, name these natural underground spaces which spelunkers explore.
ANSWER: **cave**s [or **cavern**s]

11. **A potentiator drug used to treat this disease's Class III type is combined with lumacaftor to form the drug Orkambi, which is used to treat its more common Class II variety. The drug Ivacaftor was the first to treat an underlying molecular defect of this disease. Low alkalinity in epithelial ducts due to this disease leads to low enzyme drainage and therefore abnormally high amounts of IRT, which is used to screen for this disease in babies. Complications arising from this disease include low flow and obstruction of (*)** pancreatic ducts. This disease can obstruct sperm ducts, leading to congenital absence of the vas deferens. The most common mutation leading to this disease is a deletion of phenylalanine-508 in a gene coding for a transmembrane regulator named for this disease, leading to reduced osmolarity due to a lack of chlorine ion transport. For 10 points, name this genetic disorder which causes scarring and chronic infection of the airways due to buildup of thick, dehydrated mucus in the lungs.
ANSWER: **cystic fibrosis** [or **CF**]

12. **An institution named for this person, along with two other peer institutions, were the main ones targeted by the Hecht-Calandra bill protecting their admissions practices. This person denied a request to settle by a community of Jews from Recife [heh-ZEE-fee] after they left a short-lived colony in Brazil, and settled a land dispute with Theophilus Eaton by concluding the Treaty of Hartford. The settlement of Beverwyck was constructed during the tenure of this person, who passed a series of anti-Quaker ordinances that led thirty (*)** English settlers to petition him in the Flushing Remonstrance. This man led an expedition with 700 troops down the Delaware River to take over New Sweden. He lends his name to a selective public high school whose main local peers are Hunter and Bronx Science. For 10 points, name this last director-general of New Netherland, the Dutch colony that became New York.
ANSWER: Peter **Stuyvesant** <Edited>

13. **The sixth stanza of a poem by this author describes the thought of various classical thinkers, stating "Plato thought nature but a spume." That poem by this author goes on to describe how "labour is blossoming or dancing / where the body is not brFuised." Another poem by this author describes how "masterful Heaven intervened" to prevent a "pity-crazed" character this author created from giving "her soul away." The speaker of that poem by this poet states "I sought a (*)** theme and sought for it in vain." Another poem by this author describes a "lion body with the head of a man" that appears as a "vast image out of *Spiritus Mundi*." This poet of "The Circus Animals Desertion" and "Among School Children" also wrote a poem that claims "Things fall apart; the center cannot hold." For 10 points, name this Irish poet of "The Second Coming".
ANSWER: William Butler **Yeats**

14. **Franklin Perkins attempted to revive anglophone scholarship on this philosopher's interest in China, with whom this philosopher wanted to establish a "commerce of light." His contemporary Fontenelle failed to write a chronology of his life. In an oft analysed anecdote this thinker makes a bet with an "ingenious gentleman" to find two identical leaves. This man's correspondence with De Volder resulted in his account of substance, which differs from Aristotle's in that properties are not required to be possessed throughout the (*)** entire existence of an object. This thinker presented himself as Theophilus in a refutation of a contemporary titled the *New Essays*. This thinker, who corresponded with Samuel Clarke, is the namesake of a law stating objects with all the same properties must be identical; that is the identity of indiscernibles. For 10 points, name this monad obsessed author of *Theodicy*.
ANSWER: Gottfried Wilhelm **Leibniz**

15. **The right panel of this artist's *Two Exemplary Women from Antiquity* is usually read as a depiction of Sophonisba drinking poisoned wine. In a study for a major work this artist drew a man resting on a his left elbow called *Man Lying on a Slab*. Four carved corinthian columns are backed by painted square columns, all joined by floral garlands, in an altarpiece created by this artist. An altarpiece by this artist shows the crucifixion in the central predella and a *sacra conversazione* in its main panels, and is named for the patron saint of Verona. (*)** Hampton Court houses a series by this artist that includes a depiction of a man lighting fire while standing on an elephant. This artist of the *San Zeno Altarpiece* showed only the hands and weeping faces of John and Mary at the left of another painting. For 10 points, name this artist who showcased foreshortening of perspective in his *Lamentation of Christ*.
ANSWER: Andrea **Mantegna** <Edited>

16. **These objects are the central feature of a form of art invented in Hwanghae as a way to secretly criticize the *yangban* class, known as *talchum*. A "transformation" example of these objects is used by Pacific Northwest peoples to depict dual-natured beings through turning it side to side. A set of four volumes titled for these objects presents a dichotomy of conformist "Right Hand Path" and revolutionary "left hand path" stories as examples of the "sociological function" of its subject in books titled for *Creative* and *Primitive* mythology. A (*)** jade example of these objects was employed in Maya funerary rites for rulers. The four central functions of myth are profiled in a Joseph Campbell work titled for these objects. Picasso's *Les Demoiselles D'Avignon* was inspired by a Trocadero exhibition of some of these artistic objects from West Africa. For 10 points, name these objects, contrasting examples of which symbolize tragedy and comedy.
ANSWER: **mask**s [accept The **Masks** of God] <Edited>

17. **This work compares mediocrity to a supper where poppy seeds are served in bitter Sardinian honey, since the meal would be just fine without them. This work says "he who saves a man against his will, does the same as he who kills him" when discussing Empedocles leaping into Mount Etna, which it says was motivated by cold blood rather than feeling chilly. This work shares its name with a poem that suggests its central figure "couples the Precise with Imprecision" and commands "Take vain Eloquence and wring its neck!"; that poem is by Paul Verlaine. This work, which opens by describing the (*)** absurdity of a painter attaching a human head to a horse's neck, states that gods should not interfere unless necessary and plays should only be five acts long. It says that an ideal epic begins not "from the egg" but rather "in the middle of things" or *in medias res*. For 10 points, name this "Letter to the Pisos" about how to write, a work by Horace.
ANSWER: *Ars Poetica* [or The *Art of Poetry*; accept "Ars **Poetique**"]

18. **After being kicked out of the SAS for using his training to blow up a dam built for the *Dr. Doolittle* movie, Ranulph Fiennes trained counterinsurgents to instead blow up communists in this country. Much water in this country is provided by *falaj* expanded by the Yarubid dynasty. Before selling it off to China, Pakistan purchased the Gwadar port from this country. Power was centralized in this country after its last governing Imamate was defeated the Jebel Akhdar War, when British planes bombed rebels out of the (*)** al-Hajjar mountains. Rulers of this country have belonged to the Ibadi sect, including the Nabhani and Said dynasties. After this country was unified, a small town in Dhofar was chosen as a residence by its ruler Said ibn Tamur, who was overthrown in 1970 by his son Qaboos. Its exclave of Musandam was part of its historical maritime empire, including Zanzibar. For 10 points, name this Arab gulf state whose capital is Muscat.
ANSWER: (Sultanate of) **Oman** [or Imamate of **Oman**] <Edited>

19. **Bruno Walter created an arrangement of this piece which uses a piano four-hands. The composer of this work re-used melodies form his earlier work *Ging heut' Morgen uber's Feld*, and had originally envisioned it as a two-part symphonic poem. This piece's first movement is marked "Slowly, dragging", and opens with the strings playing a seven-octave drone. A trio based on the Austrian "Landler" folk dance comprises the second movement of this piece, whose last movement calls for extra horns and for all horn players to (*)** stand up and was inspired by the viewing of the engraving "The Huntsman's Funeral." The original arrangement of this symphony included an Andante movement titled "Blumine", whose themes are still quoted in its finale. For 10 points, identify this symphony whose third movement is a funeral march with a variation on "Frere Jacques," a work in D-major by Gustav Mahler.
ANSWER: Gustav **Mahler's Symphony No. 1** in D-major [accept Mahler's **Titan** Symphony or clear knowledge equivalents like **Mahler's 1st** Symphony; prompt on only Symphony No. 1, but accept after Mahler's name]

20. **The Truesdell-Jones equation for this quantity can be simplified to another 'extended' equation whose two constants are 0.51 and 3.3×10^8 ['ten to the eighth'] in mks units. The Setschenow coefficient is a linear scaling parameter for this quantity. SIT theory is used to calculate this quantity where the infinite dilution approximation fails. Virial expansion of the excess Gibbs free energy gives geochemically useful values for this quantity for water in terms of the (*)** osmotic coefficient and another approximation adds a correction factor of 0.2 or 0.3 times I. In addition to the Pitzer and Davies equations, the B-dot equation corrects another equation which states that it equals a constant times ion charge squared times the square root of ionic strength, the Debye-Huckel equation. For 10 points, name this quantity, symbolized gamma, which multiplies the concentration of a species to give its effective concentration.
ANSWER: **activity coefficient** [prompt on **activity**]

TIEBREAKER/EXTRA TOSSUPS

1. **At one point the speaker of this poem describes "that high Capital, where Kingly Death keeps his pale court in beauty and decay", before mentioning "the twilight chamber" where "Invisible Corruption" and "The eternal Hunger" reside. The speaker of this poem exclaims "Ah, woe is me! Winter is come and gone, / But grief returns with the revolving year". This poem instructs the reader to "Go thou to Rome", and to "Follow where all is fled! – Rome's azure sky". The speaker of this poem asks (*)** "where was lorn Urania", and later proclaims "Peace, peace! He is not dead, he doth not sleep". One section of this work states that "Life, like a dome of many-colour'd glass, Stains the white radiance of Eternity". For 10 points, identify this poem whose speaker describes the soul of the title figure as being "like a star" that "Beacons from the abode where the Eternal are", a work by Percy Bysshe Shelley.
ANSWER: **Adonais**: An Elegy on the Death of John Keats

2. **This character stands on a promontory and weighs voluptuousness, passion for power, and selfishness, the "three evil things," on a set of scales. After telling a pope he prefers "the kingdom of earth," this man throws an "Ass-Festival." He remains a poet, though he agrees with his students that "the poets lie too much." This man answers the question "What is the revenge on the witness?," which is asked by the "ugliest man." He differentiates between (*)** madness "before" and "after the deed" in a discussion of a "red judge" and a "pale criminal." This figure delivers messages to the town of "The Pied Cow" on "The Three Metamorphoses" and "The Despisers of the Body." He uses the analogy of a tightrope walker to explain the idea of *Ubermensch*. For 10 points, name this prophet who titles a "Book for All and None" written by Friedrich Nietzsche.
ANSWER: **Zarathustra** [accept *Thus Spake Zarathustra* or *Also Spake Zarathustra*]

BONUSES

1. This book's central thesis is that state growth through delegation has led Congress to abdicate its responsibility for public policy to unaccountable individuals who are easily captured. For 10 points each:
[10] Name this book by Theodore Lowi, which argues that traditional capitalism and the title ideology have both died, being replaced by a perverted interest-group based system.
ANSWER: *The **End of Liberalism**: The Second Republic of the United States*
[10] In U.S. politics, the relationship between bureaucrats, Congressional committees, and interest groups is traditionally referred to with this two-word term.
ANSWER: **iron triangle** [prompt on partial answer]
[10] Interest group politics helps produce this kind of wasteful spending, whose two-word nickname is derived from a container for carrying meat. It occurs when representatives obtain appropriations for their home districts.
ANSWER: **pork**-barrel spending <Edited>

2. A text analyzing this novel examines it under five "codes" of hermeneutic, semic, symbolic, proairetic, and cultural analytical lenses. For 10 points each:
[10] Name this novel whose title character is a sculpting prodigy who falls in madly in love with the castrato Zambinella. This novel was thoroughly dissected in a poststructural analysis written by Roland Barthes.
ANSWER: ***Sarrasine***
[10] *Sarrasine* was written by this French author, who also wrote the collection *The Human Comedy*.
ANSWER: Honore de **Balzac**
[10] An essay from Roland Barthes' *Mythologies* titled for a kind of this object opens by claiming that, "I think that [these objects] today are almost the exact equivalent of the great Gothic cathedrals." That essay discusses the creation of modern myths in the context of one of these objects known as "Deesse" (DAY-ess) or "the Goddess."
ANSWER: **car**s [accept either underlined name; accept "The New **Citroen**"; accept "Citroen **DS**"; accept "the **Deesse**"; accept "The **Goddess**"; accept **auto**mobiles]

3. Answer these questions about an occasion of fraternity and goodwill, the first Thanksgiving, for 10 points each.
[10] The Pilgrims were actually scooped by Canadian Thanksgiving, which may have begun when this founder of Quebec shared a meal with natives as part of the Order of Good Cheer – a group of his most prolific Indian-killers. He names a lake on the border of Quebec and Vermont.
ANSWER: Samuel de **Champlain**
[10] This city celebrates Thanksgiving due to its brief role as safe harbor for the pilgrims who boarded the *Mayflower*, though they did so because English thugs came here to brutally assault William Brewster. It's home to a university founded in 1575 that hosted Justus Lipsius and Franciscus Gomarus.
ANSWER: **Leiden**
[10] The first Thanksgiving in the New World was probably thrown by Nicolas de Ovando. Except it wasn't a "Thanksgiving" as much as it was the Jaragua massacre, a mass-slaughter of this indigenous people, rivals of the Caribs found on Puerto Rico, Hispaniola, Cuba, and Haiti.
ANSWER: **Taino** [prompt on "Arawak"] <Edited>

4. Answer the following about detecting exoplanets for 10 points each.
[10] The conceptually simplest but technologically most challenging method is directly imaging them. One way to block out the starlight for direct imaging is this type of device designed by Bernard Lyot in 1938 to study the sun.
ANSWER **Coronagraph**
[10] A more developed method is the transit method where periodic dips in stellar brightness are assigned to planets. This was the method of choice for this most prolific exoplanet satellite, named for a German scientist.
ANSWER: **Kepler** satellite
[10] An even more straightforward method is the radial velocity method which measures changes in stellar radial velocity caused by planet using this effect. It is also observed in redshift of light from distant galaxies and ambulance sirens changing in pitch when moving.
ANSWER: **Doppler** effect

5. Act 3 of this opera contains a "skating" ballet in a forest near Westphalia. For 10 points each:
[10] Name this opera, in which Jean de Leyd is given a title by a trio of scheming Anabaptists, who intend on dethroning Count Oberthal and taking Munster for themselves. At the end of this opera Jean's lover Berthe sets fire to his palace and subsequently kills herself.
ANSWER: The **Prophet** [or **Le Prophète**]
[10] *The Prophet* is by this German composer of such "grand operas" as *Les Huguenots* and *L'Africaine*.
ANSWER: Giacomo **Meyerbeer**
[10] Somewhat ironically, the Jewish Meyerbeer was an early supporter of Richard Wagner, who in turn imitated Meyerbeer so much in this opera that it was called "Meyerbeer's best opera." Its title character fights Orsini and Colonna before dying in a fire inside of the Capitol of Rome.
ANSWER: *Rienzi* <Edited>

6. This *sūrah* describes the defeat of an army by divine intervention in the form of birds called *abābil*. For 10 points each:
[10] Name this short *sūrah*, which describes the defense of Mecca from the invader Abraha. It takes its name from a distinctive resource used by Abraha's army.
ANSWER: al-**Fīl** [or the **Elephant**; or Sūrah **105**]
[10] Unlike the pagan Arabs, Abraha belonged to this monotheistic religion. Islam considers Jews, Sabians, and practitioners of this religion to be "People of the Book."
ANSWER: **Christian**ity
[10] In the same year as Abraha's defeat, this other event took place in Mecca. It is commemorated in the Islamic world with the annual celebration of Mawlid.
ANSWER: the **birth** of the prophet **Muhammad** [accept equivalent answers] <Edited>

7. The title character of this story has a dream in which he is confronted by his dead mother while writing a poem written in blood in a red pocketbook. For 10 points each:
[10] Identify this story which follows the investigation of the murder of its title character, the son of Catherine Larue and presumably the murder victim of Branscom in Napa Valley.
ANSWER: "The **Death of Halpin Frayser**"
[10] "The Death of Halpin Frayser" is a short story by this American author of "An Occurrence at Owl Creek Bridge."
ANSWER: Ambrose **Bierce**
[10] "The Death of Halpin Frayser" appears to reference this poet by calling one of its characters a "colonial bard" and an in-text poem written in the style of "The House of Night." This author wrote a poem set in a place where you might see a "restless Indian queen."
ANSWER: Phillip **Freneau** [or Phillip Morin **Freneau**]

8. In 2012, an organization of people from this ethnic group declared the independent state of Azawad. For 10 points each:
[10] Name this nomadic Berber ethnic group native to the Sahara desert. They're often called the "blue people" for frequently wearing indigo-dyed clothes.
ANSWER: **Tuareg**
[10] The Tuareg rebellion was directed against the government of this country. Ansar Dine, a Tuareg Islamist group, later destroyed much of old Timbuktu, a World Heritage Site in this country.
ANSWER: Republic of **Mali**
[10] In another recent West African rebellion, protests in 2014 forced out this longtime dictator of Burkina Faso, who assumed the presidency after orchestrating a coup d'état that resulted in the death of Thomas Sankara.
ANSWER: Blaise **Compaoré** <Edited>

9. Henry the Lion's kid, Otto the Child, became the first member of this house to rule as Duke of Brunswick. For 10 points each:
[10] Name this German noble house, which lends its name to a pro-Papal faction that lost one of quizbowl's favorite wars, the War of the Oaken Bucket.
ANSWER: House of **Guelf** [or House of **Welf**]
[10] German royal house names snuck their way into Italian politics thanks to the incursions of this Emperor, who lost the Battle of Legnano to the Lombard League. He was nicknamed for his red beard.
ANSWER: Frederick **Barbarossa** [or **Frederick I**]
[10] Guelph-Ghibelline rivalries spread even further as a result of this campaign, which was initiated by Frederick II without any backing from Pope Gregory IX. This campaign succeeded diplomatically despite Frederick's quarrels with the House of Ibelin, and produced a ten-year treaty with little bloodshed.
ANSWER: **Sixth Crusade** <Edited>

10. A pair of Michelson interferometers at Fermilab in "back-to-back" and "nested" configurations are used by a team led by Craig Hogan to measure a fundamental type of noise predicted by this theory. For 10 points each,
[10] Name this property of many quantum gravity theories which predicts either "quantum jitter" or rotational shifts in spacetime on the planck scale.
ANSWER: **holographic principle**
[10] Generally, the Holographic principle can be interpreted as saying that the information for the universe is encoded on this type of bounding surface. This term also refers to the boundary where two particles cannot have been in causal contact in the lifetime of the universe, approximately 1 degree on the sky.
ANSWER: Event **horizon** [or Cosmological **horizon**; or Particle **horizon**]
[10] The Event horizon is most frequently associated with the Schwarzschild radius of these massive objects.
ANSWER: **black hole**s

11. This novel concerns a girl who was adopted by a fundamentalist Christian who wanted to train a servant of God. For 10 points each:
[10] Identify this novel by Jeanette Winterson, the main character of which befriends the fish seller Melanie. The friendship develops into a love affair and, when confronted about it by her pastor, the narrator refuses to repent and runs off to the house of Miss Jewsbury.
ANSWER: *Oranges Are Not the Only Fruit*
[10] *Oranges Are Not the Only Fruit* won the Whitbread prize for first novel in 1985. In 1974 this author won the Whitbread novel prize for *The Sacred and Profane Love Machine*. She is probably better known for *Under the Net*, a novel about Jake Donoghue.
ANSWER: Irish **Murdoch**
[10] This author of *The Satanic Verses* won the Whitbread prize for best novel in 1995 for *The Moor's Last Sigh*.
ANSWER: Salman **Rushdie**

12. As President of Commonwealth and Southern, Wendell Wilkie fought fiercely against this organization for six years, claiming its anti-utility policies were ruinous to private enterprise. For 10 points each:
[10] Name this rural development organization first headed by David Lilienthal. Beyond its primary utility and employment-related roles, this organization provided free libraries and books for local villages.
ANSWER: **T**ennessee **V**alley **A**uthority
[10] The TVA was the brainchild of this Senator from Nebraska, who had earlier pushed a bill to construct a dam at Muscle Shoals, claiming the government could do a better job bringing electric power to the Tennessee Valley than Henry Ford would. He opposed arming merchantmen during World War I.
ANSWER: George **Norris**
[10] Norris's other accomplishments include co-sponsoring a bill banning "yellow dog" contracts with this Italian-American Representative from New York, who later became a celebrated mayor.
ANSWER: Fiorello **LaGuardia** <Edited>

13. Answer the following about coordination chemistry, for 10 points each.
[10] Coordination chemistry is the study of the interaction of metals with these species. They are referred to as bidentate when they bind twice to a metal.
ANSWER: **Ligand**s
[10] Ligand and Crystal Field theories order ligands in these lists based on how much the ligand changes the energy difference between the d orbitals. This also predicts the color of metal-ligand complexes.
ANSWER: **Spectrochemical Series**
[10] Ligand field theories can use this method to estimate the orbital energies of different metal ligand interactions based on both the orbital energies and the physical orientation of the orbitals.
ANSWER: **Angular Overlap** Method [or **Angular Overlap** Theory]

14. To save a woman from this creature, a hero turns her into a comb and puts her in his hair. For 10 points each:
[10] Name this moss- and cypress-covered creature, whose body is as long as eight hills and eight valleys, and also happens to have eight heads and eight tails.
ANSWER: Yamata-no-**Orochi**
[10] Orochi is slain by this Shinto *kami* of storms, who seizes the sword Kusanagi from its tail.
ANSWER: (Takehaya) **Susano'o**-no-mikoto
[10] After Kusanagi was given by Susano'o to Amaterasu to help their reconciliation, Amaterasu gave it, along with the two other Imperial Regalia of Japan, to this character, who is sent to earth to plant rice.
ANSWER: **Ninigi**-no-Mikoto <Edited>

15. The composer of these three pieces claimed to have drawn inspiration from reading Gustave Flaubert's *Salammbo*. For 10 points each:
[10] Identify these three works written in ¾ time that are based on Greek dances. Claude Debussy's orchestrated the first and third of these pieces, which are sometimes erroneously included as part of their composer's "Furniture Music".
ANSWER: *Gymnopedies*
[10] The *Gymnopedies* are a work by this French composer whose other piano works include *Gnossienes* and three *Sarabandes*.
ANSWER: Erik **Satie**
[10] These pieces were composed by Satie during his "Rosicrucian" period, and were published posthumously. Although intended to be one continuous composition they were divided into nine sections by Robert Orledge. All of them are marked *tres lent*, and the fifth of them is titled "For the poor deceased".
ANSWER: *Danses gothiques*

16. During a meeting with "the chief" and his other friends, the protagonist of this novel viciously murders a cat. For 10 points each:
[10] Name this novel, in which the protagonist Noboru becomes upset when his new father doesn't beat him for spying on him and his mother Fusako having sex. Its title character is Ryuji, who works on the *Rakuyo*.
ANSWER: The *Sailor Who Fell from Grace with the Sea* [or *Gogo no Eiko*]
[10] *The Sailor Who Fell From Grace With the Sea* is a novel by this Japanese author of *Confessions of a Mask*, who committed suicide while leading a failed coup.
ANSWER: Yukio **Mishima** [accept names in reverse order]
[10] Mishima caused great concern for his wife by visiting gay bars to do research for this novel, which depicts an aging postwar author name Shunsuke, who crafts his brilliant young protege and lover Yuichi into a weapon of revenge against women.
ANSWER: *Forbidden Colors* [or *Kinjiki*]

17. While fighting this state, Mark Bell won the Victoria Cross for "heroically" slave-driving a group of native sappers into continuing to dig ditches while under heavy fire. For 10 points each:
[10] Identify this kingdom defeated at the battles of Ordashu and Amoaful by Garnett Wolsey in the third of a series of conflicts with the British. It was founded by Osei Tutu.
ANSWER: **Ashanti** Kingdom [or **Asante** Kingdom]
[10] The Kingdom of Ashanti was located in this modern-day country, whose independence was established under Kwame Nkrumah's government from Accra.
ANSWER: **Ghana**
[10] The first Anglo-Ashanti War nearly ended in total disaster for the British, whose defense of Accra hinged on a rocket developed by this British inventor, who was inspired by Mysorean weapons. His less-successful ventures include trying to make a perpetual motion machine and to use those rockets for whaling.
ANSWER: William **Congreve** (those are Congreve rockets) <Edited>

18. This ordinary language philosopher produced a widely-used English translation of Frege's *The Foundations of Arithmetic*. For 10 points each:
[10] Name this philosopher who introduced the concept of "performative utterances" in his *How to Do Things with Words*. He wrote the similarly amusingly titled *Sense and Sensibilia*.
ANSWER: John Langshaw **Austin**
[10] This philosopher was recently made required reading in Israeli schools so as to expand awareness of Sephardic culture. On a note more pertinent to this bonus, he criticized Austin in "Signature Event Context," which is collected in *Limited Inc.*
ANSWER: Jacques **Derrida**
[10] This student of Austin analogised the drama of *King Lear* to the drama of music in his essay "Avoidance of Love", which is the final essay in a collection whose other entries include "Music discomposed" and discussions of his inherited Judaism.
ANSWER: Stanley **Cavell**

19. Esther Lederberg discovered the Lambda example of these organisms. For 10 points each:
[10] Name these viruses which infect bacteria. Types of them include T4 and T6.
ANSWER: Bacterio**phages**
[10] In the T4 bacteriophage, the GAGG motif is prominent in these RNA sequences. Translation is initiated when prokaryotic ribosomes bind to this sequence.
ANSWER: **Shine-Dalgarno** sequence [accept **SD** sequence]
[10] The T4 bacteriophage carries a gene coding for this endoribonuclease that typically cleaves RNA at a GGAG sequence outside of coding regions.
ANSWER: **RegB**

20. They're not birds, but Xu Beihong is most highly regarded for his paintings of these non-human animals. For 10 points each:
[10] Eadweard Muybridge's photos of Sally Gardner, one of these animals, showed that at high speed they often have no feet on the ground. Frederic Remington often painted them, and one rears up in his sculpture *Bronco Buster*.
ANSWER: **horses**
[10] This daughter of the utopian socialist Raymond dressed as a man to help her go unnoticed while painting her masterpiece *The Horse Fair*, which was donated to the Met by Cornelius Vanderbilt.
ANSWER: Rosa **Bonheur**
[10] This British master of horse painting was excluded from the Royal Academy because of the subject of his paintings. He published a pioneering study of horse anatomy and is best known for *Whistlejacket*, which shows its title horse rearing on a solid gold background.
ANSWER: George **Stubbs** <Edited>

EXTRA BONUSES

1. Answer the following about Biblical prophets, for 10 points each.
[10] God had this prophet name his daughters Lo-ammi, Lo-Ruhama or "Not My People," "Not Pitied." This prophet had those children with the harlot Gomer, and his book is the first of the minor prophets.
ANSWER: **Hosea** [or **Hoshea**]
[10] This prophet told Ahab that God wouldn't let it rain in Israel for three years. He promised Elisha a "double portion" of his spirit if Elisha were to see him when this prophet ascends in a chariot of fire.
ANSWER: **Elijah**
[10] After Elisha prophesied that Hazael would be a really evil king of Aram, Hazael asked how a "mere" one of these beasts could do that. These animals also ate the flesh off Jezebel's corpse.

ANSWER: **dog**s